## 安装

1. Java环境

JDK 版本 > 8u20

设置JAVA\_HOME

1. 解压 到安装目录

## 配置

修改config/elasticsearch.yml

cluster.name: elasticsearch\_psam #加入集群名称

node.name: "psam\_109" #该节点名称

node.master: true #是否master节点

node.data: true #是否数据节点

network.host: 10.1.1.54 #本机IP

discovery.zen.ping.unicast.hosts: ["10.1.1.54"] #master IP

## 启动

bin/elasticsearch.bat -Xmx10g -Xms10g

#先启动master节点，再启动其他节点

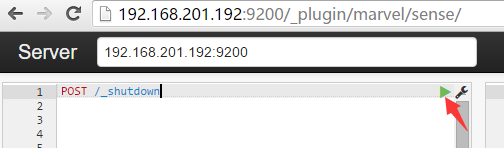
## 工具

console：<http://ip:9200/_plugin/marvel/sense/> 执行命令

head: <http://ip:9200/_plugin/head/> 集群状态查看

## 关闭

POST /\_shutdown



## 建立索引

PUT /psam

{

"settings": {

"refresh\_interval": "5s",

"number\_of\_shards": 10,

"number\_of\_replicas": 0

}

}

门楼牌号mapping

PUT /psam/\_mapping/mlph

{

"mlph": {

"properties": {

"YWLSH": {

"type": "string",

"index": "not\_analyzed"

},

"DZBM": {

"type": "string",

"index": "not\_analyzed"

},

"DZYSLXDM": {

"type": "string",

"index": "not\_analyzed"

},

"DZMC": {

"type": "string",

"index": "analyzed",

"analyzer": "ik",

"fields": {

"py": {

"type": "string",

"store": "no",

"analyzer": "pinyin\_ik",

"boost": 5

},

"szm": {

"type": "string",

"store": "no",

"analyzer": "pinyin\_first\_letter\_analyzer",

"boost": 5

}

}

},

"SSXQDM": {

"type": "string",

"index": "not\_analyzed"

},

"QHNXXDZ": {

"type": "string",

"index": "analyzed",

"analyzer": "ik",

"fields": {

"py": {

"type": "string",

"store": "no",

"analyzer": "pinyin\_ik",

"boost": 5

},

"szm": {

"type": "string",

"store": "no",

"analyzer": "pinyin\_first\_letter\_analyzer",

"boost": 5

}

}

},

"SSJLXXQ\_JLXXQMC": {

"type": "string",

"index": "analyzed",

"analyzer": "ik",

"fields": {

"py": {

"type": "string",

"store": "no",

"analyzer": "pinyin\_ik",

"boost": 5

},

"szm": {

"type": "string",

"store": "no",

"analyzer": "pinyin\_first\_letter\_analyzer",

"boost": 5

}

}

},

"SSJLXXQ\_DZBM": {

"type": "string",

"index": "not\_analyzed"

},

"SSJZW\_DZBM": {

"type": "string",

"index": "not\_analyzed"

},

"MLPH": {

"type": "string",

"index": "analyzed",

"analyzer": "ik",

"fields": {

"py": {

"type": "string",

"store": "no",

"analyzer": "pinyin\_ik",

"boost": 5

},

"szm": {

"type": "string",

"store": "no",

"analyzer": "pinyin\_first\_letter\_analyzer",

"boost": 5

}

}

},

"LSMLPBS": {

"type": "string",

"index": "not\_analyzed"

},

"BLDW\_GAJGJGDM": {

"type": "string",

"index": "not\_analyzed"

},

"BLDW\_GAJGMC": {

"type": "string",

"index": "not\_analyzed"

},

"BLR\_XM": {

"type": "string",

"index": "not\_analyzed"

},

"BLSJ": {

"type": "date"

},

"SJGSDWDM": {

"type": "string",

"index": "not\_analyzed"

},

"SJGSDWMC": {

"type": "string",

"index": "analyzed",

"analyzer": "ik",

"fields": {

"py": {

"type": "string",

"store": "no",

"analyzer": "pinyin\_ik",

"boost": 5

},

"szm": {

"type": "string",

"store": "no",

"analyzer": "pinyin\_first\_letter\_analyzer",

"boost": 5

}

}

},

"MOVESIGN": {

"type": "string",

"index": "not\_analyzed"

},

"DJR": {

"type": "string",

"index": "not\_analyzed"

},

"DJDW": {

"type": "string",

"index": "analyzed",

"analyzer": "ik",

"fields": {

"py": {

"type": "string",

"store": "no",

"analyzer": "pinyin\_ik",

"boost": 5

},

"szm": {

"type": "string",

"store": "no",

"analyzer": "pinyin\_first\_letter\_analyzer",

"boost": 5

}

}

},

"DJSJ": {

"type": "date"

},

"XGR": {

"type": "string",

"index": "not\_analyzed"

},

"XGDW": {

"type": "string",

"index": "not\_analyzed"

},

"GXSJ": {

"type": "date"

},

"SQRID": {

"type": "string",

"index": "not\_analyzed"

},

"CHILDCOUNT": {

"type": "long"

},

"ZXDHZB": {

"type": "double"

},

"ZXDZZB": {

"type": "double"

},

"DELTAG": {

"type": "string",

"index": "not\_analyzed"

},

"DELUSER": {

"type": "string",

"index": "not\_analyzed"

},

"DELTIME": {

"type": "date"

},

"SSZDYJXZQY\_DZBM": {

"type": "string",

"index": "not\_analyzed"

},

"JZWMC": {

"type": "string",

"index": "analyzed",

"analyzer": "ik",

"fields": {

"py": {

"type": "string",

"store": "no",

"analyzer": "pinyin\_ik",

"boost": 5

},

"szm": {

"type": "string",

"store": "no",

"analyzer": "pinyin\_first\_letter\_analyzer",

"boost": 5

}

}

},

"JWQBH": {

"type": "string",

"index": "not\_analyzed"

},

"JWQMC": {

"type": "string",

"index": "not\_analyzed"

},

"FROMBY": {

"type": "string",

"index": "not\_analyzed"

},

"SBID": {

"type": "string",

"index": "not\_analyzed"

},

"GPSX": {

"type": "double"

},

"GPSY": {

"type": "double"

},

"MLPHLXID": {

"type": "string",

"index": "not\_analyzed"

},

"MLPHLXMC": {

"type": "string",

"index": "not\_analyzed"

},

"DRSJ": {

"type": "string",

"index": "not\_analyzed"

},

"SSPCS": {

"type": "string",

"index": "not\_analyzed"

},

"SSFJ": {

"type": "string",

"index": "not\_analyzed"

},

"SSSJ": {

"type": "string",

"index": "not\_analyzed"

},

"SPZT": {

"type": "string",

"index": "not\_analyzed"

},

"SHPZDM": {

"type": "string",

"index": "not\_analyzed"

},

"IS\_INDEXED": {

"type": "string",

"index": "not\_analyzed"

},

"CREATE\_TIME": {

"type": "date"

},

"MAC\_ADDRESS": {

"type": "string",

"index": "not\_analyzed"

},

"TF\_CARD\_NUM": {

"type": "string",

"index": "not\_analyzed"

},

"IMEI\_NUM": {

"type": "string",

"index": "not\_analyzed"

},

"SIM\_NUM": {

"type": "string",

"index": "not\_analyzed"

},

"LOCATION": {

"type": "geo\_point",

"lat\_lon": true,

"geohash\_prefix": true,

"fielddata": {

"format": "compressed",

"precision": "1m"

}

}

}

}

}

建筑物基本信息mapping

PUT /psam/\_mapping/jzwjbxx

{

"jzwjbxx": {

"properties": {

"DZBM": {

"type": "string",

"index": "not\_analyzed"

},

"DZYSLXDM": {

"type": "string",

"index": "not\_analyzed"

},

"DZMC": {

"type": "string",

"index": "analyzed",

"analyzer": "ik",

"fields": {

"py": {

"type": "string",

"store": "no",

"analyzer": "pinyin\_ik",

"boost": 5

},

"szm": {

"type": "string",

"store": "no",

"analyzer": "pinyin\_first\_letter\_analyzer",

"boost": 5

}

}

},

"JZWMC": {

"type": "string",

"index": "analyzed",

"analyzer": "ik",

"fields": {

"py": {

"type": "string",

"store": "no",

"analyzer": "pinyin\_ik",

"boost": 5

},

"szm": {

"type": "string",

"store": "no",

"analyzer": "pinyin\_first\_letter\_analyzer",

"boost": 5

}

}

},

"BMJC": {

"type": "string",

"index": "analyzed",

"analyzer": "ik",

"fields": {

"py": {

"type": "string",

"store": "no",

"analyzer": "pinyin\_ik",

"boost": 5

},

"szm": {

"type": "string",

"store": "no",

"analyzer": "pinyin\_first\_letter\_analyzer",

"boost": 5

}

}

},

"ZXDHZB": {

"type": "double"

},

"ZXDZZB": {

"type": "double"

},

"ZAGLSSJWZRQDM": {

"type": "string",

"index": "not\_analyzed"

},

"SSZDYJXZQY\_DZBM": {

"type": "string",

"index": "not\_analyzed"

},

"SSJLXXQ\_DZBM": {

"type": "string",

"index": "not\_analyzed"

},

"DZZCZBZ": {

"type": "string",

"index": "not\_analyzed"

},

"DZZZYBS": {

"type": "string",

"index": "not\_analyzed"

},

"GXSJ": {

"type": "date"

},

"QYRQ": {

"type": "date"

},

"TYRQ": {

"type": "date"

},

"DJDW\_GAJGJGDM": {

"type": "string",

"index": "not\_analyzed"

},

"DJDW\_GAJGMC": {

"type": "string",

"index": "analyzed",

"analyzer": "ik",

"fields": {

"py": {

"type": "string",

"store": "no",

"analyzer": "pinyin\_ik",

"boost": 5

},

"szm": {

"type": "string",

"store": "no",

"analyzer": "pinyin\_first\_letter\_analyzer",

"boost": 5

}

}

},

"DJR\_XM": {

"type": "string",

"index": "not\_analyzed"

},

"MOVESIGN": {

"type": "string",

"index": "not\_analyzed"

},

"ZJF": {

"type": "string",

"index": "not\_analyzed"

},

"DJR": {

"type": "string",

"index": "not\_analyzed"

},

"DJDW": {

"type": "string",

"index": "not\_analyzed"

},

"DJSJ": {

"type": "date"

},

"XGR": {

"type": "string",

"index": "not\_analyzed"

},

"XGDW": {

"type": "string",

"index": "not\_analyzed"

},

"ENABLE": {

"type": "string",

"index": "not\_analyzed"

},

"CHILDCOUNT": {

"type": "long"

},

"ZAGLSSJWZRQMC": {

"type": "string",

"index": "analyzed",

"analyzer": "ik",

"fields": {

"py": {

"type": "string",

"store": "no",

"analyzer": "pinyin\_ik",

"boost": 5

},

"szm": {

"type": "string",

"store": "no",

"analyzer": "pinyin\_first\_letter\_analyzer",

"boost": 5

}

}

},

"DELTIME": {

"type": "date"

},

"IS\_INDEXED": {

"type": "string",

"index": "not\_analyzed"

},

"CREATE\_TIME": {

"type": "date"

},

"MAC\_ADDRESS": {

"type": "string",

"index": "not\_analyzed"

},

"TF\_CARD\_NUM": {

"type": "string",

"index": "not\_analyzed"

},

"IMEI\_NUM": {

"type": "string",

"index": "not\_analyzed"

},

"SIM\_NUM": {

"type": "string",

"index": "not\_analyzed"

},

"LOCATION": {

"type": "geo\_point",

"lat\_lon": true,

"geohash\_prefix": true,

"fielddata": {

"format": "compressed",

"precision": "1m"

}

}

}

}

}

警务区mapping

PUT /psam/\_mapping/jwq

{

"jwq": {

"properties": {

"JWQID": {

"type": "string",

"index": "not\_analyzed"

},

"PCSID": {

"type": "string",

"index": "not\_analyzed"

},

"SJXZQYID": {

"type": "string",

"index": "not\_analyzed"

},

"JWQBH": {

"type": "string",

"index": "not\_analyzed"

},

"JWQMC": {

"type": "string",

"index": "analyzed",

"analyzer": "ik"

},

"JWQJJ": {

"type": "string",

"index": "analyzed",

"analyzer": "ik"

},

"JWQMJ": {

"type": "double"

},

"JWHSL": {

"type": "double"

},

"NCGQSL": {

"type": "double"

},

"JWQXZ": {

"type": "string",

"index": "not\_analyzed"

},

"SFYX": {

"type": "string",

"index": "not\_analyzed"

},

"QYRQ": {

"type": "string",

"index": "not\_analyzed"

},

"SXRQ": {

"type": "string",

"index": "not\_analyzed"

},

"XGSJ": {

"type": "string",

"index": "not\_analyzed"

},

"BZ": {

"type": "string",

"index": "not\_analyzed"

},

"MOVESIGN": {

"type": "string",

"index": "not\_analyzed"

},

"BJZB":{

"type": "geo\_shape",

"precision": "1cm"

}

}

}

}

**常用操作：**

#关闭marvel日志功能

PUT /\_cluster/settings

{

"persistent" : {

"marvel.agent.interval" : -1

}

}

#添加数据

PUT /psam/mlph/12345

{

"MLPH":"TEST",

"LOCATION":"37.347,121.9315",

"DZMC": "TEST"

}

#GET BY ID

GET /psam/mlph/12345

#DELETE BY ID

DELETE /psam/mlph/12345

#检索

GET /psam/mlph/\_search?size=100

#match

GET /psam/mlph/\_search

{

"query": {

"match": {

"DZMC": "相公庄镇"

}

}

}

#match\_phrase

GET /psam/mlph/\_search

{

"query": {

"match\_phrase": {

"DZMC": "相公庄镇"

}

}

}

#term

GET /psam/mlph/\_search

{

"query": {

"term": {

"YWLSH": {

"value": "e04db6d2-7e52-413e-a456-64338c9c02a7"

}

}

},

"sort": [

{

"YWLSH": {

"order": "desc"

}

}

]

}

#prefix

GET /psam/mlph/\_search

{

"query": {

"prefix": {

"JWQBH": {

"value": "37"

}

}

}

}

#拼音

GET /psam/mlph/\_search

{

"query": {

"match\_phrase": {

"DZMC.py":"jiefanglu"

}

}

}

#拼音首字母

GET /psam/mlph/\_search

{

"query": {

"match": {

"DZMC.szm":"dz"

}

}

}

#统计 不存在经纬度的mlph，group by SSFJ

GET /psam/mlph/\_search?search\_type=count

{

"query": {

"filtered": {

"filter": {

"missing": {

"field": "LOCATION"

}

}

}

},

"aggs": {

"totalcnt": {

"terms": {

"field": "SSFJ",

"size": 0

}

}

}

}

#count(\*)

GET /psam/mlph/\_count

#delete mapping（相当于drop table）

DELETE /psam/mlph